

In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown. Please cancel claims 2, 8 and 9 without prejudice.

1. (Currently Amended) A modem tuner of one of zero intermediate frequency type and near-zero intermediate frequency type for receiving signals modulated with digital data, comprising:

a first input for signals in a first frequency range $f_{\text{sub.1}}$ to $f_{\text{sub.2}}$;

a second input for signals in a second frequency range $f_{\text{sub.3}}$ and $f_{\text{sub.4}}$, where $f_{\text{sub.1}} > f_{\text{sub.2}} > f_{\text{sub.3}} > f_{\text{sub.4}}$;

a mixer selectively connectable to one of said first and second inputs;

a multiplexer selectively connecting between one of said first and second inputs;

first and second buffers connected between said first and second inputs and said multiplexer;

a local oscillator having band switching for supplying to said mixer a local oscillator signal in any selected one of a plurality of local oscillator frequency ranges; and
channel selective filtering located exclusively downstream of said mixer.

2. (Cancelled)

3. (Original) A tuner as claimed in claim 1, in which said channel selective filtering has a variable bandwidth.

4. (Original) A tuner as claimed in claim 1, in which said channel selective filtering comprises low pass filtering.

5. (Original) A tuner as claimed in claim 1, in which said first frequency range is substantially within a first band from 50 to 900 MHz.

6. (Original) A tuner as claimed in claim 1, in which said second frequency ranges is substantially within a second band from 900 MHz to 2.2 GHz.

7. (Original) A tuner as claimed in claim 1, in which said local oscillator frequency ranges comprise first and second local oscillator frequency ranges.

8-9. (Cancelled)

10. (Original) A tuner as claimed in claim 1, in which said mixer has in-phase and quadrature outputs.

11. (Previously Presented) A zero intermediate frequency type modem tuner for receiving signals modulated with digital data comprising:

a first input for signals in a first frequency range from about 50MHz to 900 MHz;

a second input for signals in a second frequency range from about 900 MHz to 2.2

GHz;

a mixer having a signal input and in-phase and quadrature outputs;

a multiplexer connected to said first and said second inputs and selectively connecting said signal input of the mixer to any one of said first and second inputs;

a first buffer connected between said first input and said multiplexer;

a second buffer connected between said second input and said multiplexer;

a local oscillator for supplying to said mixer a local oscillator signal in any selected one of a plurality of local oscillator frequency ranges via a bandswitch; and

a channel selective filter located downstream of said mixer, the channel selective filter being a variable bandwidth, low pass filter.